## Did you know ...

that Earth, by definition, is 1 AU from the Sun?
$\star$ that the Astronomical Unit is a useful dimension for expressing distances in the solar system?
$\star$ that Earth (and you) travel 6.3 AUs each year as Earth orbits the Sun?

* that it takes light 499 seconds (about 8.3 minutes) to travel 1 AU ?
$\star$ that 400 Earth-Moon distances equal about 1 AU ?
$\star$ that the furthest human-made object, the Voyager 1 spacecraft, is over 150 AUs from Earth?

Earth's Diameter:
7,900 miles ( $12,700 \mathrm{~km}$ )

One trillion $S^{\prime \prime} \quad *$ AUs in a light-year?
As far as an Astronomical
Unit stretches, it is still not nearly far enough to adequately express the distances to the stars.

$276,000 \mathrm{AU}$ ! $=4.3$ light-years

AUs to the nearest star to the sun? 276,000!
63,000

Relative orbital spacing of the major planets

Neptune
29.9 AU

Uranus
19.8 AU

> Saturn
> 10.0 AU

Jupiter
5.1 AU


Rocky Worlds

Outer Gas Giant Planets

